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| Trial | Control | MCI | AD |
|-------|---------|-----|----|
| 1     | 85      | 75  | 65 |
| 2     | 88      | 78  | 68 |
| 3     | 90      | 80  | 70 |
| 4     | 92      | 82  | 72 |
| 5     | 95      | 85  | 75 |

the 1990s, the number of people in the world who are under 15 years of age is expected to increase from 1.1 billion to 1.5 billion. The number of people aged 65 and over is expected to increase from 200 million to 400 million. The number of people aged 15 and over is expected to increase from 3.5 billion to 4.5 billion. The number of people aged 15 and over is expected to increase from 3.5 billion to 4.5 billion. The number of people aged 15 and over is expected to increase from 3.5 billion to 4.5 billion.

Figure 1 is a schematic representation of the experimental design. It shows a sequence of events: a subject is presented with a stimulus (a face), then a response is recorded (a button press), and finally, a feedback signal is provided (a light or sound). The sequence is labeled with numbers 1 through 5, indicating the order of events.

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

This is not in version 3.0.

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| < 2.1.1.2 | 2.1.1.2 |
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[illegible]

$$0 \rightarrow \mathcal{O}_X(-1) \rightarrow \mathcal{O}_X \rightarrow \mathcal{O}_X(1) \rightarrow 0 \quad (6)$$

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 104

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|---|------|
| Arg Arg Leu Ala Val Leu Arg Tyr Leu Leu Ala Arg Arg Arg                 | 404  |
| 114 115 116 117 118 119 120 121 122 123 124 125                         |      |
| Leu Ala Arg Ala Arg Tyr Ile Ala Leu Leu Ala Val Arg Arg                 | 405  |
| 126 127 128 129 130 131 132 133 134 135 136 137                         |      |
| Leu Gly Ala Pro Ala Ala Leu Gly Ile Gly Ile Gly Pro Ile Pro Ala Arg Arg | 411  |
| 138 139 140 141 142 143 144 145 146 147 148 149                         |      |
| Gly Val His Lys Ala Gly Ser Leu Gly Asp Ala Leu Leu Pro Leu Gly         | 412  |
| 150 151 152 153 154 155 156 157 158 159 160 161                         |      |
| Tyr Ser Glu Pro Glu Gln Gln Glu Gly Ala Ser Ala Gly Ala Pro Ser         | 445  |
| 162 163 164 165 166 167 168 169 170 171 172 173                         |      |
| Pro Arg Arg Ser Arg Ser Arg Ser Arg Ser Arg Gly Gly Ala Ala Gly         | 496  |
| 174 175 176 177 178 179 180 181 182 183 184 185                         |      |
| Arg Arg Cys Arg Arg Leu Arg Ser Leu Asp Gly Ser Arg Arg Ser Gly         | 744  |
| 186 187 188 189 190 191 192 193 194 195 196 197                         |      |
| Pro Leu Leu Thr Pro Ser Gln Ser Leu Asp Gly Ser Arg Arg Ser Gly         | 745  |
| 198 199 200 201 202 203 204 205 206 207 208 209                         |      |
| Tyr Ile Thr Ile Gly Tyr Arg Gly Ser Tyr Thr Ile Gly Arg Arg Ala         | 792  |
| 210 211 212 213 214 215 216 217 218 219 220 221                         |      |
| Gag gag gag Val gag ttc gag gga gtc gag gag atc acc ggt ttc gga         | 841  |
| 222 223 224 225 226 227 228 229 230 231 232 233                         |      |
| Gln Ala Asp Ala Lys Phe Arg Arg Val Ala Arg Ile Thr Val Cys Gly         | 842  |
| 234 235 236 237 238 239 240 241 242 243 244 245                         |      |
| gag acc tgg ctc ggc aag gag gag gtc ttc gag gag acc ctc aac gaa agc     | 888  |
| 246 247 248 249 250 251 252 253 254 255 256 257                         |      |
| Lys Thr Ser Leu Ala Lys Glu Val Phe Gly Asp Thr Leu Asn Glu Ser         | 889  |
| 258 259 260 261 262 263 264 265 266 267 268 269                         |      |
| agg gag ggc gag ggt ctc ctc gag gag ctc ttc aac ttc ggc tat ttc ctc     | 936  |
| 270 271 272 273 274 275 276 277 278 279 280 281                         |      |
| Arg Asp Pro Asp Arg Pro Pro Glu Arg Tyr Thr Ser Arg Tyr Tyr Leu         | 937  |
| 282 283 284 285 286 287 288 289 290 291 292 293                         |      |
| gag gag gag gag gag gag gag gag gag gag gag gag gag gag gag gag         | 984  |
| 294 295 296 297 298 299 300 301 302 303 304 305                         |      |
| Lys Ile Asn Ile Leu Glu Ala Ala Phe Asp Lys Leu Ser Glu Ser Gly         | 985  |
| 306 307 308 309 310 311 312 313 314 315 316 317                         |      |
| Pro Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg         | 1031 |
| 318 319 320 321 322 323 324 325 326 327 328 329                         |      |
| Ile His Met Val Ala Tyr Ser Ser Thr Gly Thr Tyr Ala Ile Ala Pro         | 1032 |
| 330 331 332 333 334 335 336 337 338 339 340 341                         |      |
| Pro Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg         | 1033 |
| 342 343 344 345 346 347 348 349 350 351 352 353                         |      |
| Pro Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg         | 1034 |
| 354 355 356 357 358 359 360 361 362 363 364 365                         |      |



Thr Val Ala Glu Ile Phe Ala Leu Ala Asp Val Lys Gly Arg Phe  
100 101 102 103 104 105 106 107 108 109 110 111 112 113

Phe Leu Asp Arg Asp Gly Ile Leu Phe Arg Tyr Ile Leu Asp Tyr Leu  
114 115 116 117 118 119 120 121 122 123 124 125 126

Arg Asp Leu Glu Leu Val Leu Pro Asp Tyr Ile Pro Glu Arg Ser Arg  
127 128 129 130 131 132 133 134 135 136 137 138 139

Leu Glu Arg Glu Ala Glu Tyr Phe Glu Leu Phe Glu Leu Val Arg Arg  
140 141 142 143 144 145 146 147 148 149 150 151 152

Leu Gly Ala Pro Gln Gln Pro Gly Pro Gly Pro Pro Pro Ser Arg Arg  
153 154 155 156 157 158 159 160 161 162 163 164 165

Gly Val His Lys Glu Gly Ser Leu Gly Asp Glu Leu Leu Pro Leu Gly  
166 167 168 169 170 171 172 173 174 175 176 177 178

Tyr Ser Glu Pro Glu Gln Gln Glu Gly Ala Ser Ala Gly Ala Pro Ser  
179 180 181 182 183 184 185 186 187 188 189 190 191

Pro Thr Leu Glu Leu Ala Ser Arg Ser Pro Ser Gly Gly Ala Ala Gly  
192 193 194 195 196 197 198 199 200 201 202 203 204

Pro Leu Leu Thr Pro Ser Gln Ser Leu Asp Gly Ser Arg Arg Ser Gly  
205 206 207 208 209 210 211 212 213 214 215 216 217

Tyr Ile Thr Ile Gly Tyr Arg Gly Ser Tyr Thr Ile Gly Arg Asp Ala  
218 219 220 221 222 223 224 225 226 227 228 229 230

Gln Ala Asp Ala Lys Phe Arg Arg Val Ala Arg Ile Thr Val Cys Gly  
231 232 233 234 235 236 237 238 239 240 241 242 243

Lys Thr Ser Leu Ala Lys Glu Val Phe Gly Asp Thr Leu Asn His Ser  
244 245 246 247 248 249 250 251 252 253 254 255 256

Arg Asp Ile Asp Arg Ile Phe Glu Arg Tyr Thr Ser Arg Tyr Tyr Leu  
257 258 259 260 261 262 263 264 265 266 267 268 269

Lys Phe Asn Ile Leu Glu His Ala Phe Asp Lys Leu Ser His His Gly  
270 271 272 273 274 275 276 277 278 279 280 281 282

His His Met Val Ala Tyr Ser Ser His Arg His Ser Ala His Ala Ser  
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Arg His Arg His Met His Arg Tyr Leu His His Ser Tyr His His Tyr  
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Val His Tyr Arg His  
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4111-101

Met Pro Glu Ile Ile Glu Leu Asn Val Gly Gly Val Ser Tyr Thr Thr  
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Thr Leu Ala Thr Leu Leu Glu Asp Lys Ser Thr Leu Leu Ala Glu Leu  
21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

Phe Gly Glu Gly Arg Asp Ser Leu Ala Lys Asp Ser Lys Gly Arg Tyr  
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60

Phe Leu Arg Arg Arg His Val Leu Phe Arg Tyr Ile Leu Arg Phe Leu  
61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

Arg Asp Lys Ala Leu His Leu Phe Glu Gly Phe Arg Glu Arg Glu Arg  
81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

Leu Leu Arg Glu Ala Glu His Phe Lys Leu Thr Ala Met Leu Glu Cys  
101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120

Ile Arg Ser Glu Arg Asp Ala Arg Pro Pro Gly Cys Ile Thr Ile Gly  
121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140

Tyr Arg Gly Ser His Thr His His Lys Asp Gly Leu Ala Asp Val Lys  
141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160

Phe Arg Lys Leu Ser Arg His Leu Val Cys Gly Arg Val Ala Arg Cys  
161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180

Arg His Val His His Arg Thr Leu Asn Glu Ser Arg Arg His Arg His  
181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200

Arg His Thr Arg Arg Tyr Thr Ser Arg His His Leu Lys His Cys Tyr  
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His His His Ala His Arg Arg His His Asp His Arg Tyr Arg Met Ala  
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His His Tyr His His His Thr Ala His Ser Ala Ala His His Tyr His  
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Arg Val Arg Val Ala Val Ala Val Arg Val Arg Val Arg Val  
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His Ile Arg Arg  
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Gly Val  
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Gly Val  
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Gly Val  
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Gly Val  
123 124

His Val Ala Lys Lys His Thr Met Ala Leu Ser His Arg Lys Val Arg  
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Tyr Tyr Phe Arg Glu Gln Gly Ser Ala Val Phe Arg Ser Phe Phe Glu  
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Val Val Glu Leu Asp Val Gly Gly Gln Val Tyr His Thr Arg His Arg  
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Lys Arg Asp Thr Ala Asp Asp Leu Ala Lys Asp Ser Lys Gly Arg Phe  
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Phe Ile Asp Arg Asp Gly His Leu His Arg Tyr Ile Leu Asp Tyr Leu  
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Arg Asp Arg Gln Val Val Leu Phe Asp His Phe Phe Glu Lys Gly Arg  
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Leu Lys Arg Glu Ala Gln Tyr Phe Gln Leu Phe Asp Leu Val Lys Leu  
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Asp Ile Thr Asn Tyr Thr Ser Asn Ile Tyr Leu Lys Ile Tyr His Leu  
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Cys Asn Ser Ser Val Thr Ala Ser Phe Ile Asn Ser Tyr Thr Asp Asp  
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Lys Ile Tyr Ser Ser Tyr Thr Glu Tyr Val Ile Tyr Arg Glu Ile Ser  
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Asp Lys Glu Gly Glu Ser Gly Thr Ser Cys Asn Asp Leu Ser Thr Ser  
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Ser Cys Asp Ser Glu Ser Glu Ala Ser Ser Pro Glu Glu Thr Val Ile  
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Cys Gly Pro Val Thr Arg Glu Thr Asn Ile Glu Thr Leu Asp Arg Pro  
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Ile Lys Lys Gly Pro Val Glu Leu Ile Glu Glu Ser Glu Met Arg Arg  
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Lys Ser Asp Leu Leu Arg Thr Leu Thr Ser Gly Ser Arg Glu Ser Asn  
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Met Ser Ser Lys Lys Lys Ala Val Lys Glu Lys Leu Ser Ile Glu Glu  
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Glu Leu Glu Lys Cys Ile Glu Asp Phe Leu Lys Ile Lys Ile Pro Asp  
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Ala Asn Ile Ala Ser Gly Ser Leu Ser Glu Arg Glu Glu Ala Asn Val  
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Val Thr Leu Ile Asp Arg Ile Leu Ile Val Arg Arg Arg Arg Ile Leu  
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 Gly Phe Met Phe Arg Tyr Ile Leu Asn Phe Leu Arg Thr Ser Lys Leu  
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14  
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 Phe Pro Leu Asn Gly Tyr Cys His Leu Asn Ser Val His Val Leu Glu  
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 Tyr Pro Asp Ser Met Leu Gly Ala Met Phe Gly Gly Asp Phe Pro Thr  
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 Ala Arg Asp Pro Glu Gly Asn Tyr Phe Ile Asp Arg Asp Gly Pro Leu  
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 Phe Arg Tyr Val Leu Asn Phe Leu Arg Thr Ser Glu Leu Thr Leu Pro  
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 Glu Ile Glu Pro Leu Ile Glu Cys Leu Asn Asp Arg Lys Arg Leu Tyr  
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 His Met Asp Thr Phe His His Val Val His Leu Ser Ser Thr Asn Lys  
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 Leu Ser Lys Tyr Ser Asn Pro Val Ala Val Ile Ile Thr Glu Leu Thr  
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1. *Chlorophyll a* (Chl *a*)

|                |      |     |      |      |     |      |      |      |                |      |      |      |      |     |                |
|----------------|------|-----|------|------|-----|------|------|------|----------------|------|------|------|------|-----|----------------|
| The            | App. | The | Lys. | Gln. | The | Arg. | Leu. | Val. | Asn.           | Lys. | Glu. | Ala. | Met. | The | Tyr.           |
| H <sub>1</sub> |      |     |      |      |     |      |      |      | S <sub>1</sub> |      |      |      |      |     | H <sub>2</sub> |

Pro Met Asp Thr Phe Glu Glu Val Val Glu Leu Ser Ser Thr Arg Lys  
115 120 125

File Thr Thr Lys Val His Ser Leu Leu Glu Gly Ile Nor Asn Tyr Phe  
148 149 150 151 152 153 154 155 156 157 158 159 160

Phe Thr Phe Gly Phe Cys Asp Tyr His Gln Gln Val Ser Leu Arg Val  
 180 190

1000

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1987) using a Shimadzu UV-160U ultraviolet-visible spectrophotometer. The concentration of chlorophyll was expressed in  $\mu\text{g mL}^{-1}$  of the sample.

11



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*Journal of Management Education* 30(6)

5104

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